Structure of LCP1 and alignments of domains

90] Consensus 71 LLGRFCG-SEL LCP1 97 EIGKYCG1GLQ 1SPP_B 69 SYGKLCA-GA gi 1345609 822 VLGRFCG-SKk gi 1168684 552 IDMKMCG-REy gi 5912464 1836 LLGKICN-DT gi 2498677 97 LWGKYCG-KIa gi 2055303 90 TVAKFCG-NYq1fptdap gi 1899042 590 LVGTYCG-TRt gi 704441 74 EIGKYCG-LG1	FIG. 1A CUB CUB CUB CUB CUB CUB CUB CU
90 100 110 120 130 LLGRFCG-SELPPPIISSSSNSMTVTFVSDSSVQKRGFSARYSAV 114 EIGKYCG1GLQMNHSIESKGNEITLLFMSGIHVSGRGFLASYSVI 141 SYGKLCA-GAPEPVLATG-NTMTIKYNRISGNSSSPFLIYFYGS 110 VLGRFCG-SKk	CUB CCL DSD/FA58C
	70 80

gi 7387581 gi 12644458 gi 704441 gi 913964 gi 6624095		gi 7387581 gi 12644458 gi 704441 gi 913964 gi 6624095	consensus LCP1 gi 12053227 gi 12002311 gi 12002311 gi 12053227	FIG. 1C LCCL domain
94 QENYPAVHANGIQSQ 108 100 RENYSSVDANGIQSQ 114 194 IPYYESSLANNVTSV 208 462 YSDFLGSDLNGIKSE 476 110 QSGYKGSYSNGVQSL 124	GIQSE NVTSV GVQSE GIQTI GIFSE GVQSL	26 NAITCFTRGLDLRKETEDVLCPANCPLWQFYVFGDGIYASLSSVCGAAIHRGVITN-AGGAVRVQTLPG 93 32 IPVTCFTRGLDIRKEKADVLCPGGCSLEEFSVFGNIVYASVSSICGAAVHRGVIGT-SGGPVRVYSLPG 99 126 LFGHCIQFFWNLSSVSTAPAGCLLPFAEISGTIPhGYRDSSPLCMAGVHAGVVSNTLGGQISVVISKG 193 391 REVDCDSKAVDFLDDVGEPVRIHCPAGCSLTAGTVWGTAIYHELSSVCRAAIHAGKLPN-SGGAVHVVNNGP 461 42 PQINCDVKAGKIIDPEFIVKCPAGCQDPKYHVYGTDVYASYSSVCGAAVHSGVLDN-SGGKILVRKVAG 109	1 QAVTCDTKALDLCKPVTDCNRVHCPAGCLLPKAKVFGTIVYASLSSICRAAVHAGVIDNTSGGAVDVVRVGG 72 145 dlitcldtasnflEPEFSKYCPAGCLLPFAEISGTIphGYRDSSPLCMAGVHAGVVSNTLGGQISVVISKG 215 387 QDLDCYTTVAQLCpfeKPATHCPRIHCPAHCKDEPSywAPVFGTNIYADTSSICKTAVHAGVISNESGGDVDVMPVDK 464 291 QIVSCEVRLRDQCKGTT-CNRYECPAGCLDSKAKVIGSVHYEMQSSICRAAIHYGIIDND-GGWVDITRQGR 360 392 QAVTCETTVEQLCpfhKPASHCPRVYCPRNCMQANphyARVIGTRVYSDLSSICRAAVHAGVVRNH-GGYVDVMPVDK 468 286 QVVRCDTKMKDRCKGST-CNRYQCPAGCLNHKAKIFGTLFYESSSSICRAAIHYGILDDK-GGLVDITRNGK 355	10 20 30 40 50

DSD/FA58C domain 10 20 30 40 50 60 70 80 DSD/FA58C domain 10 20 30 40 50 60 70 80 CCDS-CONSENSUS 1 PLONESG TIPDSQTTASSSYSANWTPERALIXGGGAGAMSPKANDQNORQUIDLERERUT 62 LCZT A 240 LLOWESG VILAPPOLTASSV Lewcholgors	3/13	
10 20 30 40 50 60 70 80 SG-RIPDQQITASSS	1sensus PT_A 7P_M 2547128 2506380 127058 2645493 2623894 704441 7P_M 2547128 2506380 127058 2645493 2645493 2623894 704441	FIG. 1D DSD/FA58 consensus LCP1 1CZT_A 1D7P_M gi 2547128 gi 2506380 gi 127058 gi 2645493 gi 2623894 gi 704441
	90 100 110 130 130 140 150 160*	10 20 30 40 50 60 70 80 The state of the properties of the proper

Structure of the LCP gene (Chr. 3q12.1)

ORF 1962 bp, 653 a.a, 71.7 kD		ame	Open Reading Frame			
	13 14 15	9 10 11 12	3 45678	2		
mRNA 1962 bp					LCP2	
ORF 2190 bp, 729 a.a, 80.3 kD		ame	Open Reading Frame		4,	
mRNA 2280 bp	14 15 16			3	/13 CCP1	
#		AC016962.27			AC091213.8	

FIG. 2

₱9S	ĐAA		TTC	ĐAĐ					TAA	DDT	ADĐ	TOA	DAĐ
£9T	K	S	푀	Ε	ď	Ε	П	귘	N	S	Ą	Т	D
225		TOT	TDA	TTA	ATD	TAĐ	AAD	AAA	TAĐ	ATA	GLL	TCT	DAT
0SI	T	Э	Т	I	Г	D	ð	K	П	I	Λ	S	X
98ħ				TTT									
LET	S	A	Г	ㅋ	Ð	Я	Đ	S	Λ	Н	Ι	Ð	S
L ₱₱	DTA	\mathtt{DTT}	STO	\mathtt{DTT}	ADA	DTA	AAĐ	TAA	CCC	AAA	TCA	AAĐ	TTA
154	М	귘	Г	Г	Т	I	E	N	ຄ	K	S	E	I
80₽				ĐTA									
TTT	S	H	N	M	ð	Г	Ð	г	ย	Э	X	K	Ð
698	ATA	AAĐ	TDA	AĐA	DDA	этэ	AĐĐ	TTA	ADĐ	\mathtt{TAA}	$\mathbf{T}\mathbf{A}\mathbf{T}$	\mathtt{TTA}	AĐA
86	I	Ξ	T	ਬ	S	Λ	Ð	Ι	Ð	N	X	Ι	Я
330	TLG	DAT	TAA	TTT	SAS	TOT	TOT	TAĐ	TCT	TAĐ	AAĐ	TTA	DAĐ
S 8	r	X	N	ਬ	Н	ວ	S	D	S	В	Ξ	I	D
76Z	TTT	DAĐ	TĐĐ	TTT	AAA	DTA	CGC	TTĐ	AĐA	ĐAĐ	AĐĐ	ĐTA	ĐAA
27	Ą	D	Ð	됫	K	Ι	ਮ	Λ	Я	Ξ	Ð	M	K
725	ATĐ	TĐO	DTA	DAD	ĐĐI	AAĐ	TDT	GLL	TDA	DDA	DAA	၁၁၁	TAT
65	Λ	Я	I	Е	M	Ξ	Э	Λ	Т	S	N	đ	X
513	SSA	ĐAD	ADD	CAT	DAA	ATA	CCC	ADA	CLL	DDA	AĐĐ	TĐA	₽¥Đ
9₺	T	ð	ď	X	N	I	S	T	r	T	Ð	S	Ξ
ÐΔΙ	TOO	CGC	ATD	ATĐ	TDA	SAS	AĐĐ	$_{\mathrm{TGT}}$	AĐĐ	TAĐ	TĐĐ	AAD	ĐĄD
33	Ð	Ð	T	Λ	Т	Н	Ð	Э	Ð	D	Ð	ō	ð
SET	ಎಎಎ	AĐĐ	TOĐ	SAS	₽AĐ	CTC	STO	CLG	CTC	CLG	GTC	CLL	ATT
20	A	Ð	A	D	Ξ	r	Γ	r	T	r	Λ	r	r
96	STS	DTD	OTO	DTT		TDD	ĐTA	spac	מבבס	cccc	tcct	csac	dcf
L	Г	Γ	Г	크	Г	ď	М						
7.0	2222			6				50500				5	

sa: SEQ ID NO: 3

uf: SEO ID NO: J

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7227	Я	I	F	Я	A	I	I	g	q	r	TTT	И	N
\$84	AÐA	TTA	TTT	СGT	ADĐ	TTA	TTA	GCA	CCA	TLG		ЭАА	TAA
88TT	я	V	a	Q	H	Y	Д	K	И	Ð	Q	F	I
T48	сет	ĐTĐ	Tađ	SYO	DAD	TAT	ТАĐ	K	ЭАА	∀ÐÐ	AAD	TŢT	ATA
67TT	X	Д	Q	GYG	Λ	Đ	g	E	Я	Y	V	T	M
858	Y	ТАĐ	GAA	E	GTG	TĐĐ	CCT	G¥G	AÐA	DAT	9T9	TDA	TGG
0111	X	Q	999	Д	Д	2	Y	r	I	Я	Y	A	S
342	AAA	C¥G	9	ТАÐ	ТАÐ	TĐA	DAT	CLG	DTA	AÐA	DAT	၁၁၅	TCT
332	V	Y	Y	И	H	GYG	V	M	T	S	Đ	T	T
101	GTG	TAT	DAT	ТАА	SĄS	E	9T9	ĐTA	DDA	DDT	AĐĐ	TDA	DDA
250T	I	I	DDD	T	I	Х	X	a	X	И	I	Д	I
615	ATA	TTA	D	ADA	ATA	ААА	ĐAA	gaa	ĐAA	ТАА	TTG	ТАĐ	ATA
866	Q	J	W	Q	Y	a	Д	T	A	F	A	A	M
908	AAD	ATT	ĐĐT	C¥G	DAT	aad	ТАЭ	TDA	၁၁၅		TDĐ	TDĐ	TGG
567	q	cce	Ð	q	X	X	r	Я	A	X		CCC	X
764	TDD	5	¥ÐÐ	TDD	AAA	AAA	CTG	ĐĐ¥	၁၁၅	AAA	AAA	D	AAA
316	W	S	N	E	Q	eee	T	H	a	T	W	E	CLG
380	TGG	TĐA	DAA	G¥G	AAD	e	ADA	DAD	SAĐ	TDA	ĐĐI	G¥G	
9 L 8	V	S	S	A	T	I	Q	G	Д	A	I	V	Đ
	ĐTĐ	TOT	ADT	ADĐ	ADA	ATA	AAD	T	ТАЭ	ĐĐĐ	DTA	STS	TĐĐ
758 837	S	E G¥G	M ĐTA	999 9	CLG	T ADA	Ð ÆÐÐ	Y TAT	D TĐT	Ð ÆÐÐ	2 TĐA	T ADA	X Đ Y Y
867	A	T	A	L	2	T	S	J	H	Ð	V	V	S
142	TTT	ADA	TTT		TĐA	ADA	TOT	ATT	SAS	₩ĐĐ	etg	etg	TOT
822	T	V	N	N	A	r	S	2	E	Y	Y	ವವವ	I
822	ADA	STĐ	DAA	DAA	TDĐ	TTG	TCT	TĐÆ	GAA	TAT	TAT	T	TTA
212 212	Đ TĐĐ								Q AAD				T ĐጋA
202	И ЭАА								Đ TĐĐ			D DDT	I TTG
Z₹9 68I	₫ ₩DD	S ĐጋT							g TDD			9 499	S TOT
E09 9LT									Đ TĐĐ				

676T	H	Y	V	E	Q	999	q	S	N	Y	q	Д	J
8T9	TAD	TAT	TTĐ	GAA	Đ A D	9	GCA	ADT	DAA	DAT	TOO	ТАÐ	ATD
068T	D	A	Y	ວຄຄ	A	E	X	Đ	E	E	g	K	TTT
S09	GAC	ADĐ	TAT	ຄ	ADĐ	GAA	AAA	AĐĐ	GAA	GAA	GCA	AAA	
1981	T	S	Я	Q	H	I	T	Đ	V	I	Đ	Ð	V
265	DDA	TOT	А ÐА	AAD	TAD	TTO	ADA	TĐĐ	TTĐ	TTA	AĐĐ	ÆÐÐ	ATĐ
ZT8T	r	g	Q	A	Y	E	A	S	D	A	Q	r	V
649	CTG	CCA	Đ¥ጋ	TDĐ	TAT		ADĐ	TOT	D	TDĐ	S¥S	CTG	GTG
ELLT	T	T	V	E	Я	g	2	L	H	И	V	E	s
995	ADA	DDA	STĐ	GAA	AĐA	A⊃⊃	TĐA		SAS	ТАА	GTT	GAA	၁၅४
₱8 ८ ፒ	s	S	Y	CGC	V	g	T	E	E	H	D	V	A
888	⊃ĐÆ	⊃Đ¥	TAT		TTĐ	GCA	DDA	GAA	G¥G	TAD	DAĐ	STS	ADĐ
569I 0†S	X AAA	A ADĐ	q TDD	CLL	F TTT	Q G¥G	X Đ AA	M ĐTA	Ð ₩ÐÐ	K K	W DDT	W	9 T99
959T .	A	cee	D	W	Y	q	J	D	Y	T	299	E	T
<i>L</i> ZS	ADĐ	¥	D	DDT	DAT	TDD	ATT	D	TAT	DDA	9	Gyy	TDA
∠⊺9⊺	X	X	X	A	N	A	W	H	W	A	D	V	J
 ₹⊺⊊	AAA	AAA	ĐAA	AĐA	DAA	AĐA	ĐĐT	SAS	ĐĐT	TDĐ	TĐT	ĐTĐ	ATT
84ST	I	ı	I	r	T	T	I	V	M	V	r	V	q
10S	ATA	STS	TTA	CTC	TDA	TDA	STS	STĐ	ĐTA	STĐ	CLG	ete	TDD
7236	V	L	V	A	A	r	A	V	Д	K	T	V	И
888	GTC	CTT	TTĐ	ADĐ	TDĐ	CLG	ĐĐĐ	ATĐ	ТАÐ	AAA	DDA	ATĐ	ТАА
00 S T	g	T	V	T	T	N	Я	I	Д	q	2	A	T
SL₹	GCA	TDA	ATĐ	DDA	TDA	TAA	АÐА	DTA	ТАÐ	TDD	TĐA	၁၁၅	TDA
19#1	T	Q	E	T	Q	A	q	TTT	E	И	S	2	CGC
79#	ADA	GAA	AAĐ	ADA	G∀G	ADĐ	TDD		GYY	ТАА	⊃Đ¥	TĐA	K
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£8£T	A	I	K	g	q	A	T	T	N	¥¥¥	CIC	D	И
9£₱	DDĐ	ATA	AAA	GCA	TDD	၁၁၅	ADA	TDA	DAA	K		B	ТАА
7344 453	s ⊃ĐÆ	N DAA	CGG K	q TDD	q TDD			Q CAA	T TDA	CLL	K AAA	₹ CC¥	q TDD
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0T₽	тээ	TĐĐ	AAA	TDD	TTA	TTT	ĐAD	TOT	Add	STS	STS	G¥G	ĐTA
99ZT	K	M	A	I	K	Q	g	W	Q	T	q	N	V
26E	K	ĐTA	၁၁၅	TTA	AAA	GYG	SAS	ĐĐT	GAA	DDA	TOO	TAA	STS

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89ħ 9ST	Ð ₩ÐÐ	V GTG	V GTG	S	T ADA	V GTC	N DAA	N DAA	A TDĐ	L TTG	S	2 TĐA	GYY E
459	Y	Y	CCC	I	Đ	X	2	I	V	V	2	I	Q
143	TAT	TAT		TTA	TĐĐ	AAA	TĐA	TTA	ATĐ	GTT	TĐA	DTA	AAD
360	299	299	TLG	T	N	S	V	V	Ð	A	H	V	Đ
330	9	9		ĐDA	DAA	ADT	ĐTĐ	ATĐ	ÆÐÐ	ADĐ	CAT	9T9	TĐĐ
τςε	A	M	D	TLG	₽	S	S	G	Я	Y	- Đ	H	g
Δττ	TDĐ	ĐTA	DDT		GCA	ĐOT	DDT	TAĐ	AÐA	TAT	AĐĐ	TAD	CCT
31S	I TTA	T ADA	Đ AĐĐ	S TCT	I ATA	E	A TDĐ	LLL	q TDD	L	I STS	D TĐT	Đ TĐĐ
273 273	A TDĐ	q ADD	D DDT	Y DAT	X ĐAA	2 TĐA	F	a dag	q TDD	E GAA	I TTG	F	N TAA
₽£Z	S	A	T	G	I	D	T	I	J	Д	Q	X	Д
	DDT	ADĐ	TDA	D	TTG	TĐT	TDA	TTA	ATD	ТАЭ	GAD	AAA	ТАĐ
96T	I	V	S	Y	2	A	L	H	Ð	CGC	Đ	S	V
9	ATA	GTT	TOT	DAT	ADT	DDĐ	TTG	TTT	ÆÐÐ		AĐĐ	TOT	GTT
720 25	H TAD	I DTA	Đ AĐĐ	2 TĐA	M ĐTA	F	r CIG	L TTG	T ADA	I DTA	E	И ТАА	299 9
LTT	X	S	E	I	S	H	N	M	Q	L	666	I	Đ
68	AAA	ADT	GAA	TTA	ADT	TAD	DAA	ĐTA	AAD	TTG	6	STO	TĐĐ
9Z 9Z	D TĐT	Y DAT	K K	299 9	Q AAD	Q S¥S	A ⊃⊃ච	Ð ÆÐÐ	A TDĐ	G¥C	E	L CTC	r CIG
6E ET	r CTG	r CTC	r CLG	V GTC	L	J ÁTT	L	CLG	L	F TTC	r CLG	GCT	M ĐTA

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338	CLL	K	g	q	Я	Đ	X	g	I	A	Q	D	Ð
1014		K	CCA	TDD	СGT	TĐĐ	AAA	TDD	TTA	TTT	S¥S	TĐT	AÐÐ
375 375	r CIC	r CIG	E	M ĐTA	X AAA	M ĐTA	A ၁၁၅	I TTA	K AAA	Q G¥D	Q G	M	Q AAD
936	T	g	N	Λ	Я	I	A	R	A	I	I	g	q
375	DDA	CCT	TAA		AÐA	TTA	TTT	CGT	ADĐ	TTA	TTA	GCA	GCA
768	L	F	N	N	R	Λ	Д	Q	H	Y	D	K	N
768	TTG	TTT	DAA	TAA	CGT	GTG	ТАЭ	C¥G	SAS	TAT	TÆÐ	AAA	DAA
828	Ð	Q	F	I	X	G	Q	G¥G	V	Ð	q	E	Я
828	ÆÐÐ	GAA		ATA	Đ A A	TAĐ	AAD	E	STS	TÐÐ	TDD	G¥G	AĐA
813 813	Y DAT	V 9T9	T TDA	M	K	Q G¥G	999 9	Д ТАЭ	. d TAĐ	2 TĐA	Y DAT	T CLG	I DTA
780	Я	Y	A	S	V	Y	Y	И	H	E	V	M	T
780	AÐA	DAT	DDĐ	TOT	GTG	TAT	DAT	ТАА	DAD		GTG	ĐTA	DDA
747	S	Đ	T	T	I	I	299	T	I	X	X	E	K
747	DDT	AĐĐ	TDA	DDA	ATA	TTA	9	ADA	ATA	AAA	Đ AA	GYY	PAA
702	N	TLG	G	I	Q	J	M	Q	Y	E	Д	T	A
703	TAA	L	TAĐ	ATA	GAA	ATT		C¥G	DAT	GAA	ТАЭ	TOA	၁၁၅
863	A	A	A	M	q	a	Ð	q	X	K	r	Я	A
221	TTT	TDĐ	TDĐ		TDD	SCG	₹ÐÐ	TDD	AAA	AAA	CTG	ЭЭA	၁၁၅
208 80₹	X AAA	YYY K	CCC	YYY K	M TGG	2 TĐA	N DAA	E G¥G	Q CAA	999 9	T ADA	H DAD	G Y S
585 56T	T TDA	M			V GTG					I ATA	Q CAA		Д ТАЭ
785 785		I DTA			S TOT				r CLG	T ADA	Đ AĐĐ	Y TAT	D TĐT
L0S 69T	Đ AĐĐ	S TĐA	T ADA	K PAG	F	T ADA	FTTT	CLL	S TĐA	T ADA	S	J ATT	H CAC

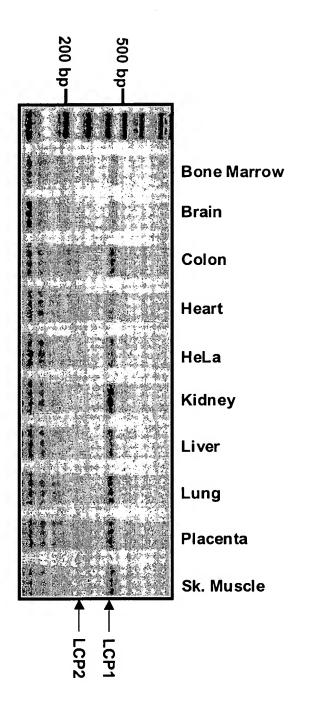
233	X	Б	D	Г	D	A	X	Ð	A	Ξ	К	Ð	Е
7260 220	E E	GC∌	X AAA	F	T DDA	S TOT	Я AÐA	Q AAD	H TAD	L	T ADA	Đ TĐĐ	V GTT
1251 205	I TTA	Đ AĐĐ	Ð ÆÐÐ	V ATĐ	CLG	GC∌	Q G¥G	A TDĐ	Y TAT	G¥G	A ADĐ	S TCT	D D
78†I 76†	A TDĐ	Q G¥C	T CTG	V 9T9	T ADA	T DDA	V GTC	E GAA	Я AÐA	GC∌	2 TĐA	r CIG	H DAD
184 184	И ТАА	V GTT	E GAA	s Sea	S DĐ¥	S DÐÆ	Y TAT	CGC K	V GTT	g A⊃⊃	T DDA	E GAA	E GPG
₽0₽T 89₽	H TAD	D GAC	V eTe	A ADĐ	K AAA	A ADĐ	q TDD	CLL	F	Q Đ A D	X Đ A A	M ĐTA	Ð ÆÐÐ
598T 598	K AAA	M	M DDI	Đ TĐĐ	A ADĐ	SGG K	D D	M TGG	Y DAT	q TDD	J ATT	DAĐ	Y TAT
735e	T DDA	299 9	E GAA	T TDA	K AAA	X AAA	X Đ A A	Я AÐA	N DAA	Я AÐA	M	H SAS	LGG M
7287 429	A TDĐ	D TĐT	V etg	J ATT	I ATA	I CTC	I TTA	L CTC	T TDA	T TDA	L CTC	V GTC	M ĐTA
7548 416	V GTC	r CIG	V 9T9	q TDD	V GTC	L	V	A ADĐ		CLG	A ĐĐĐ	V ATĐ	Д ТАÐ
1503 403	X AAA	T DDA	V ATĐ	N TAA	g GCA	T TDA	V ATĐ	T DDA	T TDA	N TAA	Я АӘА	I DTA	Д ТАЭ
0LTT 06E													_
TETT 445				CGC									g GCA
760T 364				X AAA									N DAA
T023	X AAA	CLC			S DÐ¥		cee K		g TDD		g TDD	Q AAD	T TDA

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796⊺ ₽99										* AÐT	CLL P	I DTA	E GAA
096T 099	K AAA	A TTT	V GTT	G TAĐ	D TĐT	Э ДАЭ	999 9	G TÆÐ	Я ĐĐA	Ð ÆÐÐ	A ADĐ	Đ AĐĐ	S ADT
TT6T LE9	V ATĐ	E GAA	Q AAD		s DĐA	Q SYD	g A⊃⊃	V GTG	Q Đ A D	Y DAT	Λ	r L	E GYV
7.81 ₹29	D D¥Đ	GCA	A DDĐ	P TOO	J ATD	Đ TĐĐ	GCA	K PAG	eee e	A TDĐ	X AAA	CCG B	T DDA
EE8T TT9	G TAĐ	Y TAT		A DDĐ		A ၁၁၅	2 ADT		D DÐT	2 ⊃ĐÆ	D A Đ	T TDA	Я ĐĐ¥
₹6 ८ Т 86 S	s DDT	r CTC	CLL	T ADA		Y DAT		Đ AĐĐ	V 9TĐ	J ATD	g CCA	CCC B	g CCT
SSLT S8S	Q AAD	N DAA	555 5	T ĐጋÆ	A TDĐ	K V	LLC	T TDA	S DDT	T ADA	S DDT	CCC	Q G¥G
717 715	Đ TĐĐ	ν GTT	2 ADT	T TDA	T ADA	CCC D	H DAD	999 9	S TCA	M ĐTA	D D	M ĐTA	I DTA
<i>LL</i> 9T 6SS	I DTA	₫ ADD	T DDA	A ADĐ	Y TAT	E	P CCT	999 9	T ĐጋA	I TTA	GC₽	r CIC	g GCA
7638 546	G YY E	A TDĐ	Y TAT	A DDĐ	H TAD	Y TAT		E GAA	Q Đ A D	999 9	g GCA	S TCA	N DAA
66ST	DAT	TOO	TAĐ	ATD	SAĐ	ADĐ	TAT	ರಿಕಿ	ADĐ	AAĐ	AAA	AĐĐ	AAĐ

issue Expression profile of LCP



IG. 5